AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An exercise machine, comprising:

a support frame;

a single resilient elongate rod linked to the support frame, the resilient elongate rod configured to provide resistance for use in exercise; and

a variable resistance system linked to the single resilient elongate rod, the variable resistance system being configured to <u>vary a mechanical advantage usable to flex utilize</u> the resilient elongate rod to <u>vary the provide a variable</u> amount of resistance <u>presented by the resilient elongate rod</u> for use in exercise.

- 2. (Original) The exercise machine of claim 1, wherein the support frame includes an upright support member.
- 3. (Original) The exercise machine of claim 2, wherein the single resilient elongate rod is coupled to the upright support member of the support frame.

- 4. (Original) The exercise machine of claim 1, wherein the single resilient elongate rod includes a first end, a second end, and a center portion, the first end, the second end, and the center portion moving during exercise.
- 5. (Original) The exercise machine of claim 1, wherein the variable resistance system includes a cable and pulley system.
- 6. (Original) The exercise machine of claim 5, wherein the variable resistance system includes a lever arm.
- 7. (Original) The exercise machine of claim 6, wherein the amount of mechanical advantage provided by the lever arm can be varied to change the amount of resistance needed to flex the resilient elongate rod.
- 8. (Original) The exercise machine of claim 7, further comprising a lever arm length regulator adapted to change the effective length of the lever arm to vary the mechanical advantage provided by the lever arm.
- 9. (Original) The exercise machine of claim 8, further comprising a lead screw coupled to the lever arm length regulator to change the effective length of the lever arm.

10. (Original) The exercise machine of claim 9, wherein the lead screw is

automatically adjustable by the user utilizing an electronic weight selector control that operates

in connection with the variable resistance system.

11. (Previously Presented) An exercise machine, comprising:

a support frame;

at least one resilient elongate member having a first end, a second end, and an

intermediate portion, wherein the intermediate portion is linked to the support frame; and

a cable and pulley system coupled to the support frame and the at least one

resilient elongate member, the cable and pulley system having at least one cable adapted

to be moved by the user, wherein movement of the at least one cable causes movement of

the first end, the second end, and the intermediate portion of the at least one resilient

elongate member.

12. (Original) The exercise machine of claim 11, wherein the cable and pulley

system includes a plurality of pulleys.

13. (Original) The exercise machine of claim 11, wherein a single cable is routed

through the plurality of pulleys such that a user can displace at least a first end of the cable

during exercise.

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14. (Previously Amended) The exercise machine of claim 12, wherein the cable and pulley system provides a compound effect allowing the user to displace at least a first end of the cable and pulley system a greater amount than the ends of the resilient elongate rod are

displaced.

15. (Previously Amended) The exercise machine of claim 14, wherein the compound effect of the cable and pulley system allows the user to displace both ends of the cable a greater amount than the ends of the resilient elongate rod are displaced.

16. (Original) The exercise machine of claim 11, wherein the cable and pulley system is included as part of a variable resistance system.

- 17. (Previously Amended) The exercise machine of claim 16, wherein the resilient elongate rod is included as part of a resistance assembly.
- 18. (Original) The exercise machine of claim 17, wherein the resistance assembly includes a secondary cable and pulley system.
- 19. (Original) The exercise machine of claim 18, wherein the cable and pulley system of the resistance assembly cooperates with the cable and pulley system of the resistance assembly to allow a user to exercise utilizing resistance from the resilient elongate rod.

20. (Currently Amended) An exercise machine, comprising:

a support frame;

a single resilient elongate rod positioned adjacent to the support frame, the

resilient elongate rod configured to <u>flex and provide a resistance</u> for use in exercise; and

a resistance selector system cooperating with the single resilient elongate rod, the

resistance selector system being configured to vary a mechanical advantage usable to flex

the resilient elongate rod to vary the amount of resistance provided by the single resilient

elongate rod during exercise.

21. (Previously Presented) The exercise machine of claim 20, wherein the resistance

selector system comprises an electronic resistance selector system.

22. (Original) The exercise machine of claim 21, wherein the electronic resistance

selector system includes a variable resistance system and an electronic weight selector control.

23. (Original) The exercise machine of claim 22, wherein the electronic weight

selector control allows a user to automatically select the amount of resistance to be utilized

during an exercise routine.

24. (Original) The exercise machine of claim 22, wherein the electronic weight

selector control includes one or more preprogrammed exercise routines.

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25. (Original) The exercise machine of claim 24, wherein the one or more preprogrammed exercise routines automatically identify a series of exercises to be conducted by

the user.

26. (Original) The exercise machine of claim 24, wherein the one or more preprogrammed exercise routines automatically selects the number of sets and repetitions to be performed for each exercise to be conducted by the user.

27. (Original) The exercise machine of claim 24, wherein the exercise machine automatically detects the number of sets and repetitions conducted by the user.

28. (Original) The exercise machine of claim 27, wherein the one or more preprogrammed exercise routines automatically selects the amount of resistance for each exercise to be conducted by the user.

- 29. (Original) The exercise machine of claim 28, wherein the user can modify various parameters related to the preprogrammed exercise routines including the numbers of sets, number of repetitions, resistance to be utilized, and the exercise to be performed.
- 30. (Original) The exercise machine of claim 23, wherein the electronic weight selector control includes a plurality of selector buttons for changing various parameters of the exercise machine.

31. (Original) The exercise machine of claim 30, wherein the plurality of weight

selector buttons are adapted to change the amount resistance to be utilized during an exercise

machine.

32. (Previously Presented) An exercise machine, comprising:

a support frame having an upright support member;

at least one resilient elongate rod positioned adjacent to the support frame;

a cable and pulley system coupled to the support frame and the at least one

resilient elongate member, the cable and pulley system having at least one cable adapted

to be moved by the user;

a squat apparatus rollably coupled to the upright support member of the support

frame, the squat apparatus being coupled to the cable and pulley system to utilize

resistance from the at least one resilient elongate rod.

33. (Canceled)

34. (Canceled)

35. (Previously Presented) The exercise machine of claim 32, wherein the upright

support member includes one or more tracks integrally formed therein.

- 36. (Previously Presented) The exercise machine of claim 35 wherein the squat apparatus includes a plurality of rollers positioned in the one or more tracks of the upright support member.
- 37. (Previously Presented) The exercise machine of claim 32, further comprising an electronic resistance selector system cooperating with the at least one resilient elongate rod, the electronic resistance selector system being configured to vary the amount of resistance provided by the resilient elongate rod during exercise.
 - 38. (Previously Presented) An exercise machine, comprising: a support frame;

at least one resilient elongate rod supported by the support frame, the at least one resilient elongate rod being movable relative to the support frame such that no portion of the at least one resilient elongate rod is fixed in relation to the support frame; and

a cable and pulley system cooperating with the at least one resilient elongate rod, said mechanism being adapted to allow a user to exercise utilizing the resistance from the at least one resilient elongate rod to perform exercise.

39. (Canceled)

40. (Original) The exercise machine of claim 39, wherein a cable of the cable and pulley system is linked to the ends of the at least one resilient elongate rod to utilize resistance

from the at least one resilient elongate rod.

41. (Original) The exercise machine of claim 40, wherein the center portion of the

ends of the at least one resilient elongate rod move closer together when the at least one resilient

elongate rod undergoes flexing.

42. (Original) The exercise machine of claim 38, further comprising a guide mounted

to the support frame, the guide being adapted to minimize lateral movement of the at least one

resilient elongate rod.

43. (Original) The exercise machine of claim 42, wherein the guide is circumscribed

by the center portion of the at least one resilient elongate rod.

44. (Previously Presented) An exercise machine, comprising:

a support frame;

at least one resilient elongate rod linked to the support frame, the resilient

elongate rod configured to provide resistance for use in exercise;

a cable and pulley system linked to the resilient elongate rod; and

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a variable resistance system linked to the cable and pulley system to utilize resistance from the resilient elongate rod to provide a variable amount of resistance for use in exercise.

45. (Previously Presented) An exercise machine, comprising: a support frame;

at least one resilient elongate rod linked to the support frame, the at least one resilient elongate rod configured to provide resistance for use in exercise;

an electronic variable resistance system linked to the resilient elongate rod and being configured to utilize the resilient elongate rod to provide a variable amount of resistance for use in exercise.

- 46. (Previously Presented) The exercise machine of claim 45, wherein the support frame includes an upright support member.
- 47. (Previously Presented) The exercise machine of claim 46, wherein the resilient elongate rod is coupled to the upright support member of the support frame.
- 48. (Previously Presented) The exercise machine of claim 45, further comprising a cable and pulley system coupled between the resilient elongate rod and the electronic variable resistance system includes a cable and pulley system.

49. (Previously Presented) The exercise machine of claim 49, wherein the electronic

variable resistance system includes a lever arm.

50. (Previously Presented) The exercise machine of claim 50, wherein the amount of

mechanical advantage provided by the lever arm can be varied to change the force needed to flex

the resilient elongate rod.

51. (Previously Presented) The exercise machine of claim 51, further comprising a

lever arm length regulator adapted to change the effective length of the lever arm to vary the

mechanical advantage provided by the lever arm.

52. (Previously Presented) The exercise machine of claim 52, further comprising a

lead screw coupled to the lever arm length regulator to change the effective length of the lever

arm.

53. (Previously Presented) The exercise machine of claim 53, wherein the lead screw

is automatically adjustable by the user utilizing the electronic variable resistance system.

54. (Previously Presented) The exercise machine of claim 45, wherein the electronic

variable resistance system allows a user to automatically select the amount of resistance to be

utilized during an exercise routine.

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55. (Previously Presented) The exercise machine of claim 45, wherein the electronic

variable resistance system includes one or more preprogrammed exercise routines.

56. (Previously Presented) The exercise machine of claim 55, wherein the electronic

variable resistance system automatically identifies a series of exercises to be conducted by the

user.

57. (Previously Presented) The exercise machine of claim 55, wherein the electronic

variable resistance system automatically selects the number of sets and repetitions to be

performed for each exercise to be conducted by the user.

58. (Previously Presented) The exercise machine of claim 57, wherein the electronic

variable resistance system automatically detects the number of sets and repetitions performed by

the user.

59. (Previously Presented) The exercise machine of claim 55, wherein the electronic

variable resistance system automatically selects the amount of resistance for each exercise to be

conducted by the user.

60. (Previously Presented) The exercise machine of claim 55, wherein the electronic

variable resistance system allows the user to modify various parameters related to the

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preprogrammed exercise routines, including the numbers of sets, number of repetitions,

resistance to be utilized, and the exercise to be performed.

61. (Previously Presented) The exercise machine of claim 60, wherein the electronic

variable resistance system includes a plurality of selector buttons for changing various

parameters of the exercise machine.

62. (Previously Presented) The exercise machine of claim 61, wherein the plurality

of selector buttons are adapted to change the amount resistance to be utilized during an exercise

machine.